

Title (en)

MULTI-FIRE FASTENER DELIVERY SYSTEM AND METHOD

Title (de)

SYSTEM UND VERFAHREN ZUR FREISETZUNG VON BEFESTIGUNGSELEMENTEN MIT MEHRFACHAUSLÖSUNG

Title (fr)

SYSTÈME ET PROCÉDÉ DE DISTRIBUTION D'ÉLÉMENTS DE FIXATION MULTI-COUPS

Publication

EP 3071123 A4 20180530 (EN)

Application

EP 14862952 A 20141118

Priority

- US 201361905551 P 20131118
- US 2014066205 W 20141118

Abstract (en)

[origin: WO2015074066A2] A prosthesis fastener applier includes a handle, a plurality of input controls, and a fastener delivery shaft. The handle contains a motor and a control circuit. The input controls are connected to the handle and communicatively connected to the control circuit. The fastener delivery shaft includes a fastener cartridge and a driver shaft. The fastener cartridge includes a plurality of internal threads configured to receive a plurality of helical fasteners in stacked relationship. The driver shaft is operatively connected to the motor, disposed within the fastener cartridge, and configured to pass through respective inner diameters of the helical fasteners. The control circuit is configured to control the motor in response to signals from one or more of the input controls to rotate the driver shaft to cause one or more of the helical fasteners to be advanced axially relative to the fastener cartridge.

IPC 8 full level

A61B 17/068 (2006.01)

CPC (source: EP US)

A61B 17/068 (2013.01 - EP US); **A61B 50/30** (2016.02 - EP US); **A61B 17/105** (2013.01 - US); **A61B 2017/00115** (2013.01 - EP US); **A61B 2017/00123** (2013.01 - EP US); **A61B 2017/00398** (2013.01 - EP US); **A61B 2017/00734** (2013.01 - EP US); **A61B 2017/0649** (2013.01 - EP US); **A61B 2090/0803** (2016.02 - EP US)

Citation (search report)

- [XY] EP 2260775 A2 20101215 - TYCO HEALTHCARE [US]
- [Y] US 2006095119 A1 20060504 - BOLDUC LEE [US]
- [A] US 2011071578 A1 20110324 - COLESANTI ANTHONY [US], et al
- [A] EP 1908409 A1 20080409 - TYCO HEALTHCARE [US]
- [A] US 2013197591 A1 20130801 - CORRADI RALPH ROBERT [US], et al
- [Y] EP 2389873 A2 20111130 - TYCO HEALTHCARE [US]
- [A] US 2009270976 A1 20091029 - DOUK NAREAK [US], et al
- [A] WO 0016701 A1 20000330 - UNITED STATES SURGICAL CORP [US], et al
- [A] WO 9856299 A1 19981217 - ENDIUS INC [US]
- [A] US 2010001038 A1 20100107 - LEVIN SHALOM [IL], et al
- [A] US 2012022557 A1 20120126 - CABIRI OZ [IL], et al
- [A] EP 1990013 A1 20081112 - TYCO HEALTHCARE [US]
- See references of WO 2015074066A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 2015074066 A2 20150521; **WO 2015074066 A3 20151029**; CN 106028973 A 20161012; CN 106028973 B 20200714; EP 3071123 A2 20160928; EP 3071123 A4 20180530; EP 3071123 B1 20221109; JP 2016540619 A 20161228; JP 6535342 B2 20190626; US 10524794 B2 20200107; US 11589862 B2 20230228; US 2015142016 A1 20150521; US 2020121319 A1 20200423; US 2023165583 A1 20230601

DOCDB simple family (application)

US 2014066205 W 20141118; CN 201480063108 A 20141118; EP 14862952 A 20141118; JP 2016554548 A 20141118; US 201414546766 A 20141118; US 201916663179 A 20191024; US 202318101696 A 20230126